

CLAIMS

What is claimed is:

1. A communication system operative over a common medium, the system comprising:

a. a plurality of transceivers, each transceiver comprising:

(1) a resonant circuit;

(2) an antenna coupled to the resonant circuit;

(3) a transmitter; and

(4) a receiver; and

b. a monitor comprising:

(1) a first transmitter;

(2) a first receiver; and

(3) a processor that performs a method comprising:

transmitting into the medium from the first transmitter a first frequency for a first

duration;

after lapse of the first duration, receiving via the first receiver a response signal from the

medium from at least one of the resonant circuits;

determining a second frequency from the received response signal; and

performing transceiver communication via the medium using the second frequency.